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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/000,271	11/02/2001	Thomas Ruediger	G06.006	9293
28062	7590 06/14/2004	EXAMINER		
	, MASCHOFF, TALWAI	PARDO, THUY N		
5 ELM STRE NEW CANA	EET AN, CT 06840		ART UNIT	PAPER NUMBER
	,		2175	^
			DATE MAILED: 06/14/2004	6

Please find below and/or attached an Office communication concerning this application or proceeding.

				144
	Applio	cation No.	Applicant(s)	
	10/00	0,271	RUEDIGER, THOM	AS
Office Action Summary		iner	Art Unit	
	Thuy	Pardo	2175	
The MAILING DATE of this communication of the Period for Reply	nication appears on	the cover sheet with the	correspondence add	ress
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMUI - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this con - If the period for reply specified above is less than thirty If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for rep Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In n nmunication. (30) days, a reply within the statutory period will apply ar sly will, by statute, cause the	to event, however, may a reply be to estatutory minimum of thirty (30) do not will expire SIX (6) MONTHS from a application to become ABANDON	timely filed ays will be considered timely. In the mailing date of this condition IED (35 U.S.C. § 133).	
Status				
 Responsive to communication(s) fit This action is FINAL. Since this application is in condition closed in accordance with the practice. 	2b)⊠ This action in for allowance exc	is non-final. ept for formal matters, p		merits is
Disposition of Claims				
4) ⊠ Claim(s) <u>1-40</u> is/are pending in the 4a) Of the above claim(s) is/5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,2,4,6-33 and 36-39</u> is/ar of the above claim(s) <u>3,5,34,35 and 40</u> is/are of the subject to restrict the subject the subject to restrict the subject the subject to restrict the subject t	are withdrawn from re rejected.	·		
Application Papers				
9) ☐ The specification is objected to by the specification is objected to by the specific to	<u>er 2001</u> is/are: a)⊠ lection to the drawing(ng the correction is red	(s) be held in abeyance. So quired if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFF	R 1.121(d).
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internat * See the attached detailed Office act	y documents have to the second of the priority documents for the priority docuits and Bureau (PCT)	been received. been received in Applica uments have been receiv Rule 17.2(a)).	ition No ved in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892)		4) 🗔 Intendian Surrey	o. (DTO 442)	
2) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449 (Paper No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:		152)

DETAILED ACTION

1. Claims 1-40 are presented for examination.

Information Disclosure Statement

2. The information disclosure statement filed November 02, 2001 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4, 6-33, and 36-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pattison et al. (Hereinafter "Pattison") US Patent No. 5,999,936 in view of Gruenwald US Patent NO. 6,457,006.

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4. Claims 1, 2, 4, 6-33, and 36-39 are rejected under 35 U.S.C. 102(b) as being as being anticipated by Pattison et al. (Hereinafter "Pattison") US Patent No. 5,999,936.

As to claim 1, Pattison teaches the invention substantially as claimed, comprising:

determining a first value representing a difference between data specified in the data field and data specified in a respective one of the second plurality of data fields [the difference value between RECORD1A and RECORD2B, see fig. 5];

determining a second value representing a difference between data specified in the data field and data specified in a respective one of the first plurality of data fields [the difference value between RECORD1A and RECORD2B, see fig. 5]; and

determining a third value representing a difference between the first record and the second record based on the determined first and second values [the difference value between RECORD1A and RECORD2B, see category 4 of fig. 5].

However, Pattison does not explicitly teach that the record comprises a plurality of data fields although it has the same functionality of generating and storing a delta value of a record which differs from the previous record [see the abstract]. Gruenwald teaches identifying duplicate data between fields of the records in the databases [see the abstract; 720 of fig. 7].

Therefore, it would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to add this feature to the system of Pattison as an essential means to increase integrity (i.e., accuracy and correctness) of data in a database system and also reduce the time of retrieving data from the database.

As to claim 2, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches determining, for each of the first plurality of data fields and respective ones of the second plurality of data fields, a fourth value based on a mean of a first value determined for one of the first plurality of data fields and a second value determined for a respective one of the second plurality of data fields; and summing the determined fourth values [see fig. 5; col. 12, lines 15-43].

As to claim 4, Pattison and Gruenwald teach the invention substantially as claimed.

Pattison further identical steps performed with respect to different inputs [col. 10, lines 49-51].

As to claim 6, Pattison and Gruenwald teach the invention substantially as claimed. Pattison further teaches that in the step of determining the first value, the first input data is data specified in one of the first plurality of data fields and the second input data is data specified in a respective one of the second plurality of data fields, and in the step of determining the second value, the first input data is data specified in one of the second plurality of data fields and the second input data is data specified in a respective one of the first plurality of data fields [see fig. 5].

As to claim 7, Pattison and Gruenwald teach the invention substantially as claimed, with exception of converting numerical data specified in the one or more of the first plurality of data fields and the second plurality of data fields to text data [inherent in the system].

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As to claim 8, Pattison and Gruenwald teach the invention substantially as claimed.

Pattison further specify data that is not identical to data specified in a respective field ["RD1A" and "1234" of record1 and "RD1B" and "457" of record2, see 504 of fig. 5].

As to claims 9-11, all limitations of these claims have been addressed in the analysis above, and these claims are rejected on that basis.

As to claim 12, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches receiving identification of the one or more of the plurality of data fields from a user [ab; "Account No." of fig. 5].

As to claim 13, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches formatting the received records based on a standard format for data specified in each of the plurality of data fields [col. 9, lines 20-26; fig. 5-6].

As to claim 14, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches identifying one or more hoax records, wherein the identified one or more hoax records are not included in any of the plurality of groups of records [col. 3, lines 47-35].

As to claim 16, Pattison and Gruenwald teach the invention substantially as claimed.

Gruenwald further teaches storing the second record in the data warehouse in association with an

identifier identical to an identifier associated with the first record [col. 11, lines 14-51; col. 12, lines 32-59].

As to claim 17, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches identifying a first record and a second record of a group of records as duplicates based on business rules, wherein the second record is not included in any of the plurality of groups of records [col. 10, lines 47-62; col. 11, lines 32-51; col. 12, lines 14-21].

As to claim 19, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches determining that the value representing the difference between the two records is below a threshold value [col. 11, lines 32-51; col. 12, lines 23-31].

As to claim 20, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further determining that the value representing the difference between the two records is within a specified range of values [col. 7, lines 53 to col. 8, lines 51]; presenting the two records to a user and receiving an indication from the user that the two records are duplicate records [inherent in the system].

As to claim 27, Pattison and Gruenwald teach the invention substantially as claimed. Gruenwald further teaches storing the two records in the data warehouse in association with a same identifier [col. 17, lines 1-7].

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As to claims 15, 18, 21-33, 35-39, all limitations of these claims have been addressed in the analysis above, and these claims are rejected on that basis.

Allowable Subject Matter

Claims 3, 5, 34, 35, and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claim 3, the feature of determining the third value comprises determining a sum of the determined first values and the determined second values; and dividing the sum by two, taken together with other limitations of claim 1 was not disclosed by the prior art of record.

As to claims 5, 34, and 40, the feature of a step to determine an asymmetric spelling distance as a normalized cost for converting first input data to second input data via a sequence of operations; and wherein the step to determine the second value comprises a step to determine an asymmetric spelling distance as a normalized cost for converting second input data to first input data via the sequence of operations, taken together with other limitations of claims 1, 32, or 38 was not disclosed by the prior art of record.

Claim 35 is being further limiting to claim 34 is also objected to.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy Pardo, whose telephone number is (703) 305-1091. The examiner can normally be reached Monday through Thursday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici, can be reached at (703) 305-3830.

The fax phone number for the organization where this application or proceeding is assigned are as follows: (703) 872-9306 (Official Communication)

and/or:

(703) 746-5616 (Use this Fax#, only after approval by Examiner, for "INFORMAL" or "Draft" communication. Examiner may request that a formal/amendment be faxed directly to then on occasions).

Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

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Or:

(703) 308-5359, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

June 11, 2004

THUY N. PARDO PRIMARY EXAMINER